

The JONES COLORIZER

is first mixer
trols for this mixer
gain, 4) Blue gain, 5)
6) Channel pedestal.
pot on the control
a switch and jac
This first
set to key f
pulse gen
provide
the t

A	pin 1	clip pedestal	1	red
B	pin 2		2	green
C	pin 3		3	red
D	4		4	blue
E	5	video gain	1	black
F	6		2	white
G	7		3	red
H	8		4	yellow
J	9	pedestal	1	green
K	10		2	blue
L	11		3	black
M	12		4	red
N	13	chroma	1	black
P	14		2	orange
R	15		3	red
S	16		4	white
T	17	(R)	1	red
U	18		2	brown
V	19		3	green
W	20		4	white
X	21	G	1	black
Y	22		2	green
Z	23		3	red
a	24		4	orange
b	25	B	1	black
c	26		2	blue
d	27		3	black
e	28		4	yellow
f	29	video gain out		black

242 HS

R	15	(P1102)	3	red
S	16	(P110)	4	white
T	17	(R)	1	red
U	18		2	brown
V	19		3	green
W	20		4	white
X	21	G	1	black
Y	22		2	green
Z	23		3	red
a	24		4	orange
b	25	B	1	black
c	26		2	blue
d	27		3	black
e	28		4	yellow
f	29	video gain out		black
g	30	pedestal out		brown
h	31			orange
i	32			
k	33			
l	34	+10V		violet/red
m	35	$\frac{1}{2}$		yellow/green

1	pin A	clip out 1	black
2	B	2	gray
3	C	3	pink
4	D	4	light brown
5	E		orange
6	F	+10V	violet
7			
8	H	$\frac{1}{\text{---}}$	yellow
9	J		dark brown
10	L	clip in 1	blue
11	M	2	red
12	N	3	green
		4	white

(Vb)

(Hb)

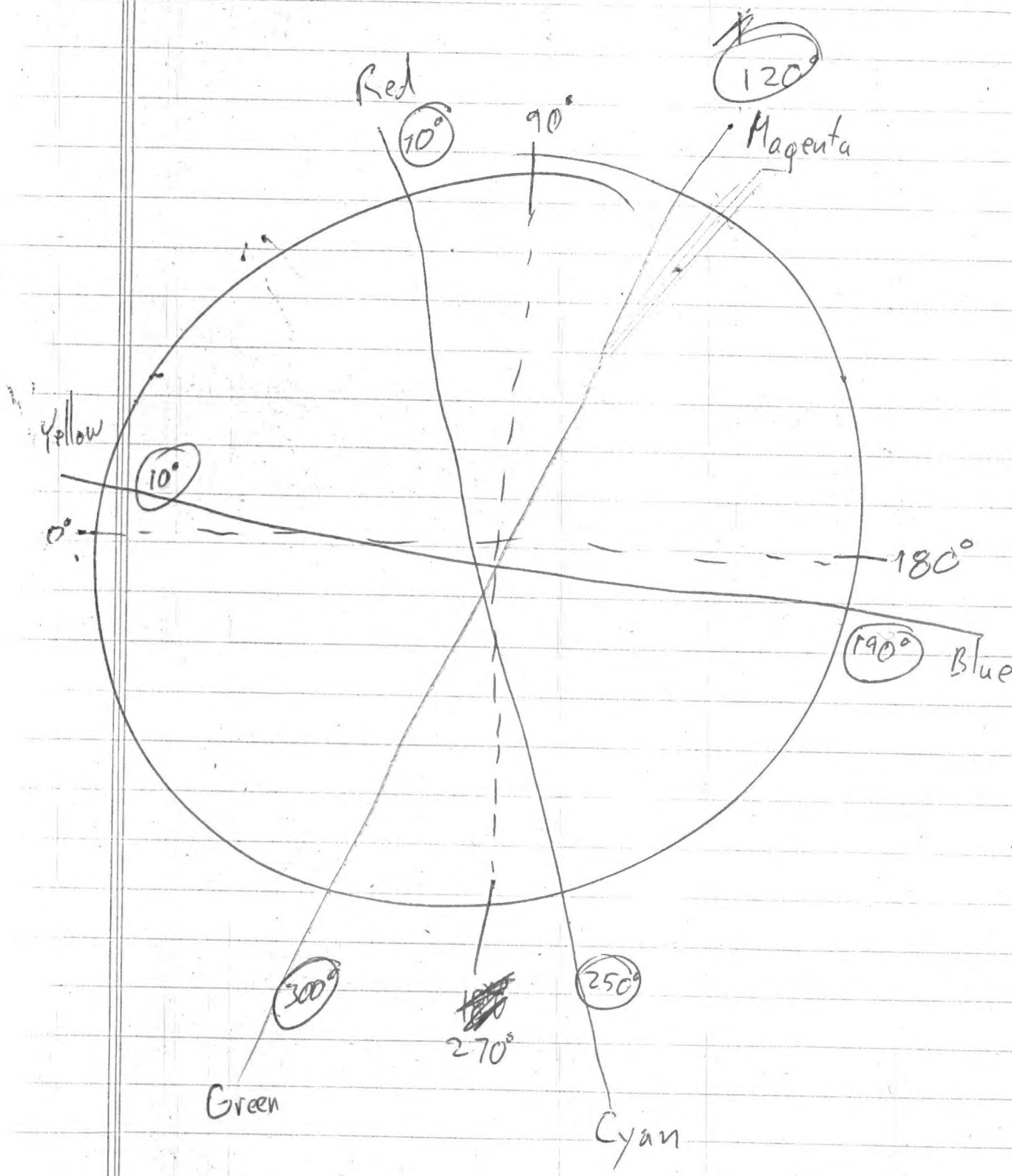
Compas.

B1.

BF

3.58.

3,579,545 Hz



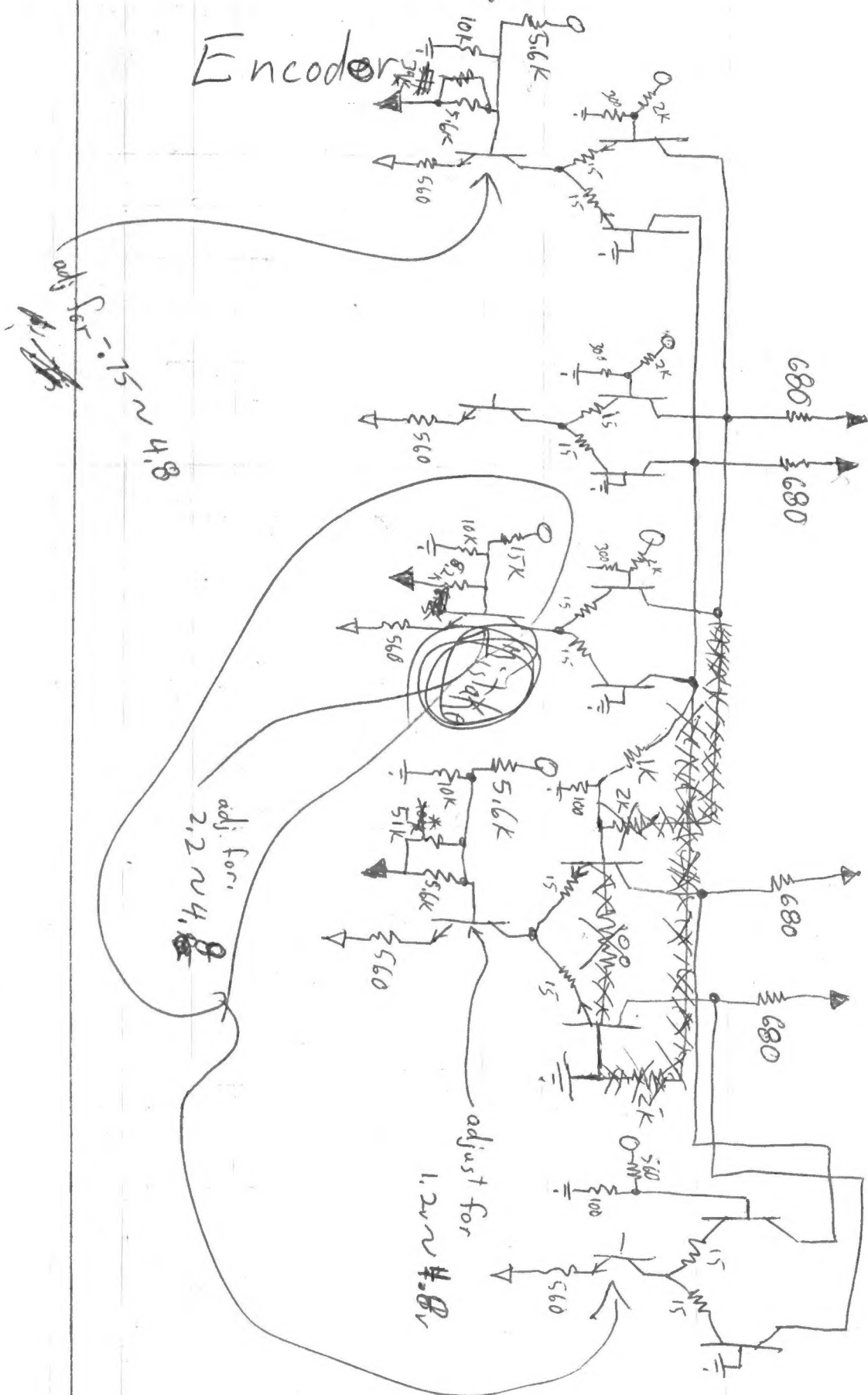
January 8, '75

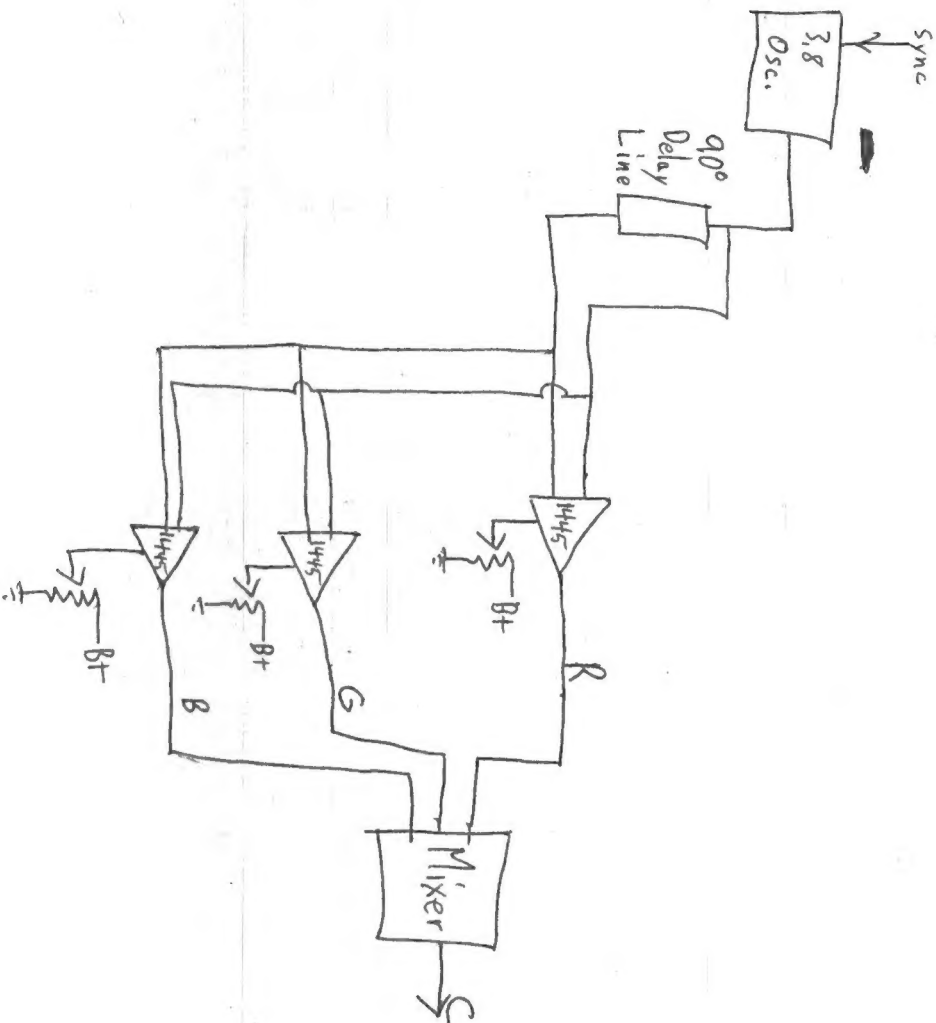
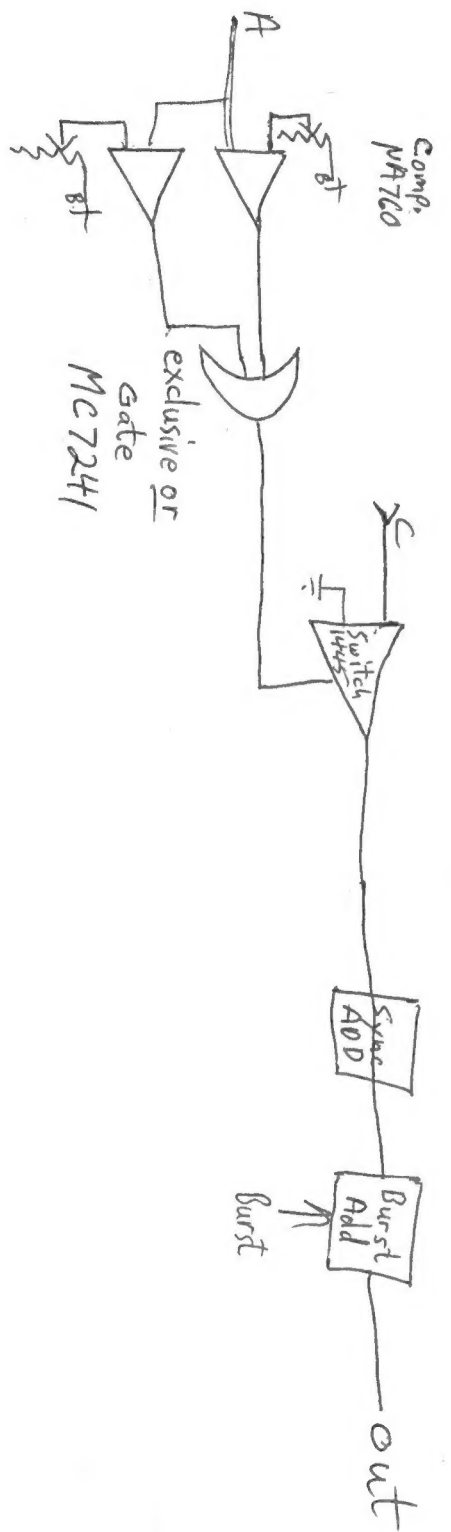
Pin	Input 1	Input 2	Input 3	Input 4	Mix	Output	Sync Proc
1	BUSED						
2							
3						Unreg. +15Vdc	
4							
5	Blanking				Bused		+12
6	Video 1 IN	Video 2 IN	Video 3 IN	Video 4 IN			3.58 IN
7	Clip 1 Voltage	Clip 2 Voltage	Clip 3 Voltage	Clip 4 Voltage		output A	To pin 1 (3.58) output board
8	Clip 1 pulse IN	Clip 2 pulse IN	Clip 3 pulse IN	Clip 4 pulse IN		output B	
9	3.58 Red	Red	Red	Red		output B	Red out
10	*1 Red Level Voltage	*2 Red Level Voltage	*3 Red Level Voltage	*4 Red Level Voltage			Blue out
11	3.58 Blue	in from pin 10	Sync Board			3.58	Green out
12							
13	*1 Blue level Voltage	*2 Blue level Voltage	*3 Blue level Voltage	*4 Blue level Voltage		B.F.	B.O. IN
14	3.58 Green	in from pin 11	Sync Board				To pin 13 of output board (B.F.)
15	*1 Green level Voltage	*2 Green level Voltage	*3 Green level Voltage	*4 Green level Voltage		Sync	Sync IN
16	Pedestal 1 Voltage	Pedestal 2 Voltage	Pedestal 3 Voltage	Pedestal 4 Voltage			
17	Luminance 1 Voltage	Luminance 2 Voltage	Luminance 3 Voltage	Luminance 4 Voltage		Blanking	To pin 15 of output board (Sync)
18	Chroma 1 Voltage	Chroma 2 Voltage	Chroma 3 Voltage	Chroma 4 Voltage			Blanking IN to pin 17 of output board (Blanking)
19	out 1	out 2	out 3	out 4		Video in	
20							
21	Bused					Unreg. -15Vdc	UNR -15
22							

Colorizer as of 1/8/75

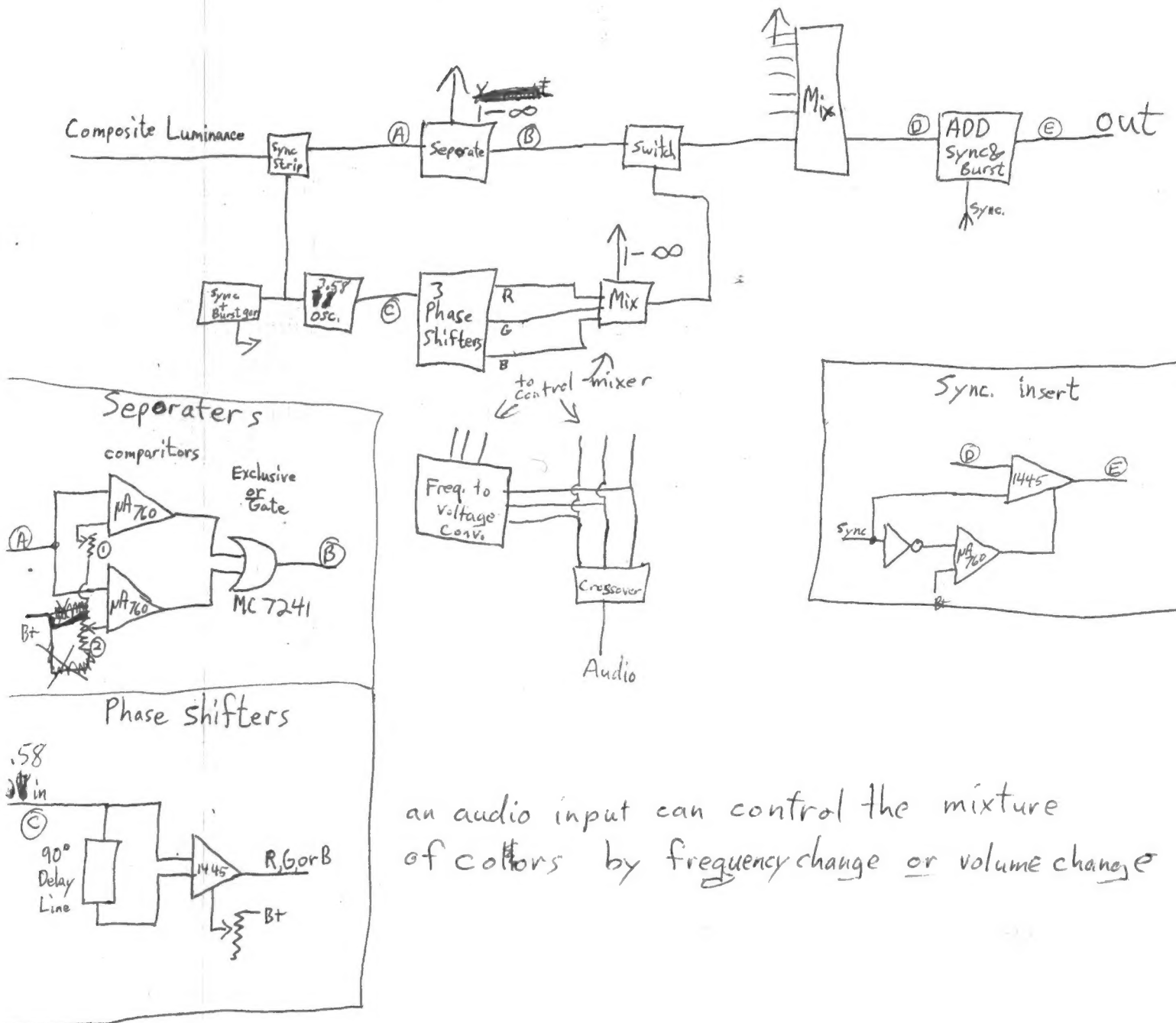
Pin	INPUT Boards 1 ~ 4	MIX Board	Output Board	Sync Proc
1				
2	unreg. +15	unreg. +15	unreg. +15	unreg. +15
3	clip pulse out			+5 Buss
4	regulated +12	From Mix Board		
5	Blanking From Pin 1 of Output Board			+5 Buss
6	Video IN			3.58 from Panel
7	clip Voltage	Vid out	Output A	Topin 11 output board
8	clip pulse in		Red.	3.58
9	Red from Sync Board	Vid 1 in	output B	to pin 14 input Board
10	Red level Voltage			RED
11	Blue from Sync Board	Video 2 in		to pin 11 input Board
12				Blue
13	Blue level Voltage	Vid 3 in	3.58 from Sync Board	to pin 14 of input Board
14	Green from Sync Board			Green
15	Green level Voltage	Vid 4 in	B.F. from Sync Board	
16	Pedestal Voltage			B.F. From Panel
17	Luminance level Voltage		Sync from Sync Board	to pin 13 output board
18	chroma level Voltage			Composite Sync from Panel
19	outputs		Blanking from Sync Board	to pin 15 output Board
20				Sync
21	UNREG. -15	unreg. -15	unreg. -15	Blanking from Panel
22				to pin 14 of input Board

Encoder





Complete Control Colorizer

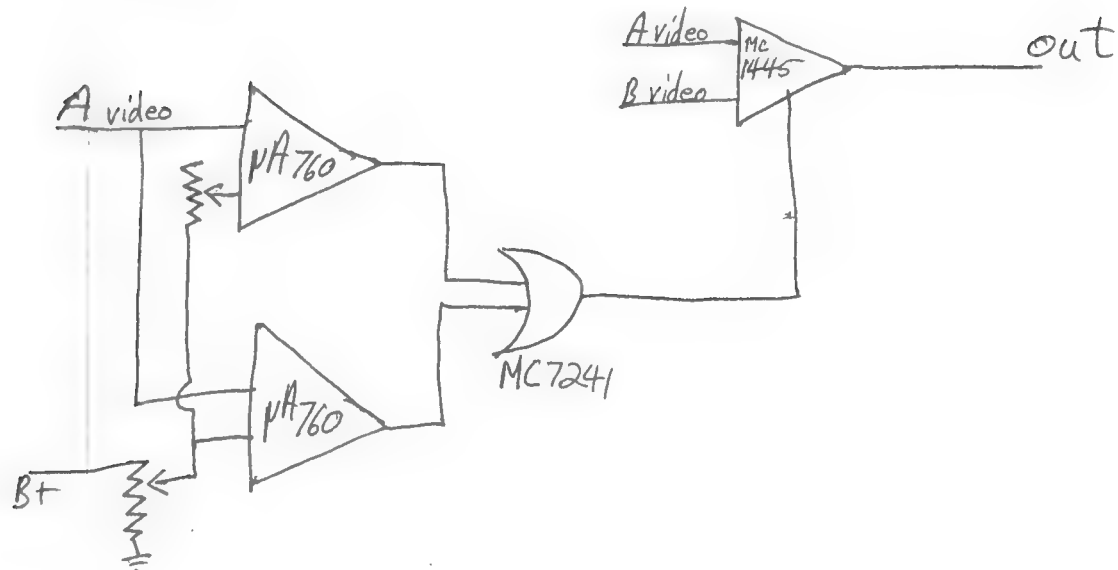


an audio input can control the mixture of colors by frequency change or volume change

Controls ① and ② give you complete control over the size and placement of the grey levels

The R, G, B, mixers will give you complete control over the color added to each level

Selective level Keyer

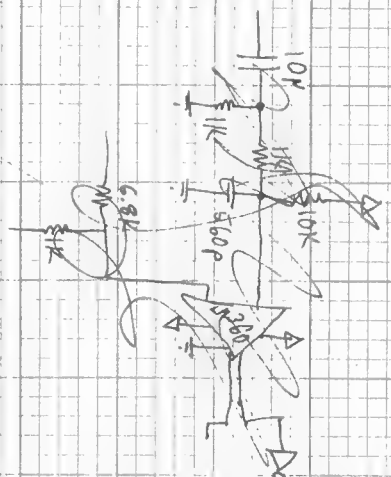
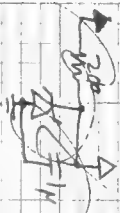
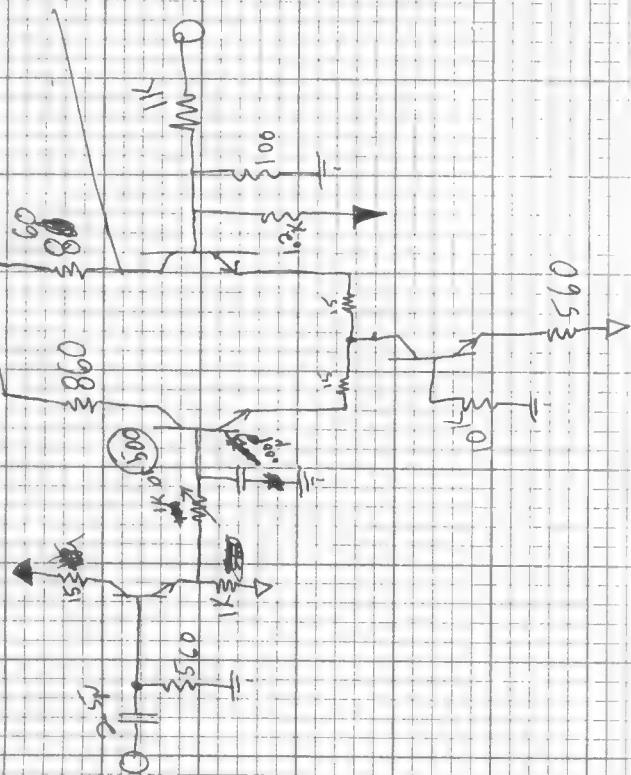


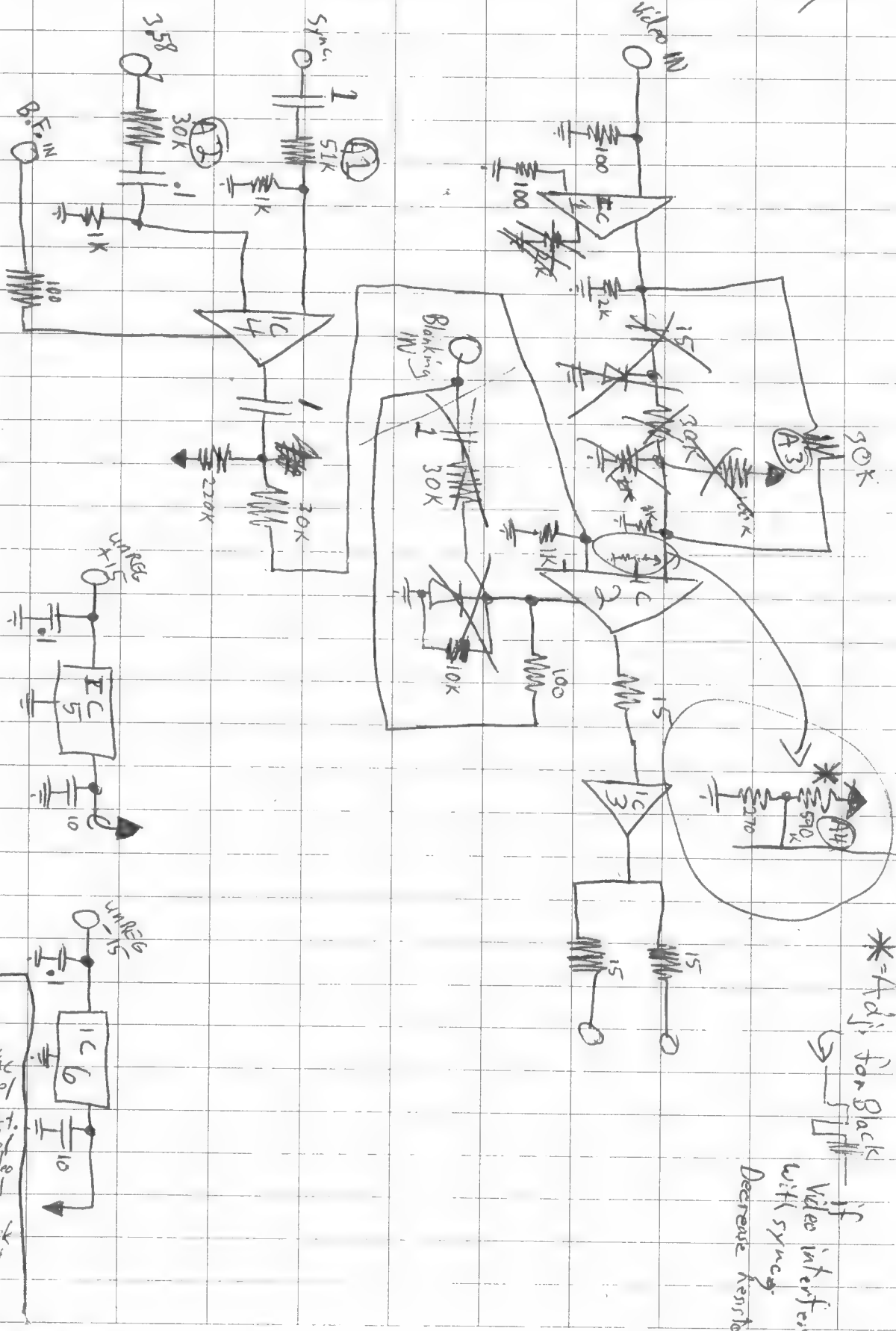
~~Most Keyers place the second image~~

Keyers only allow you to Key over a certain level of the video or higher. for example over anything white or anything light gray or brighter or med. gray or brighter

~~this~~ this Keyer allows you to be selective for example only on 1 shade of gray or everything except Black and white etc.

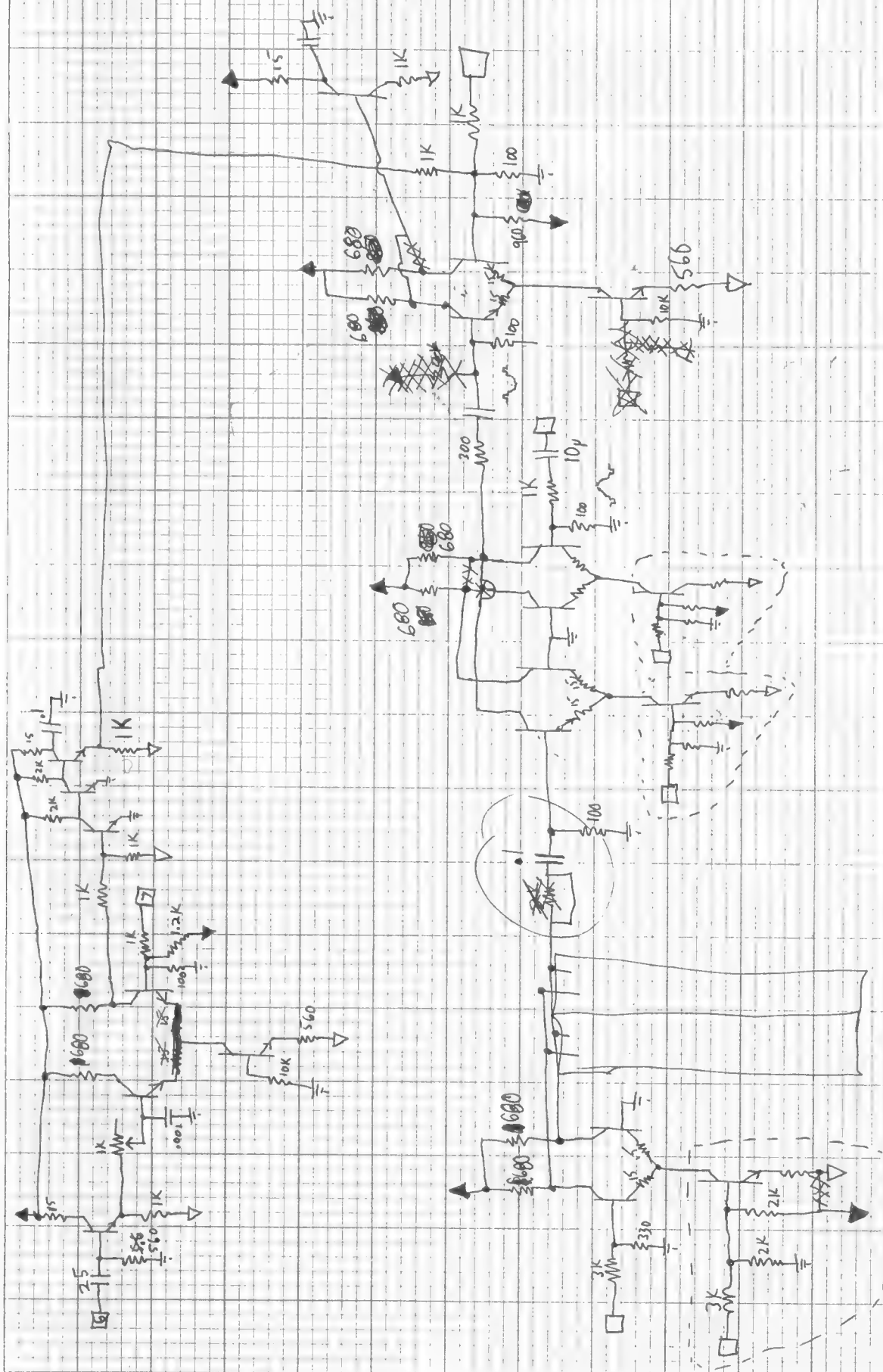
Comparator Amp.



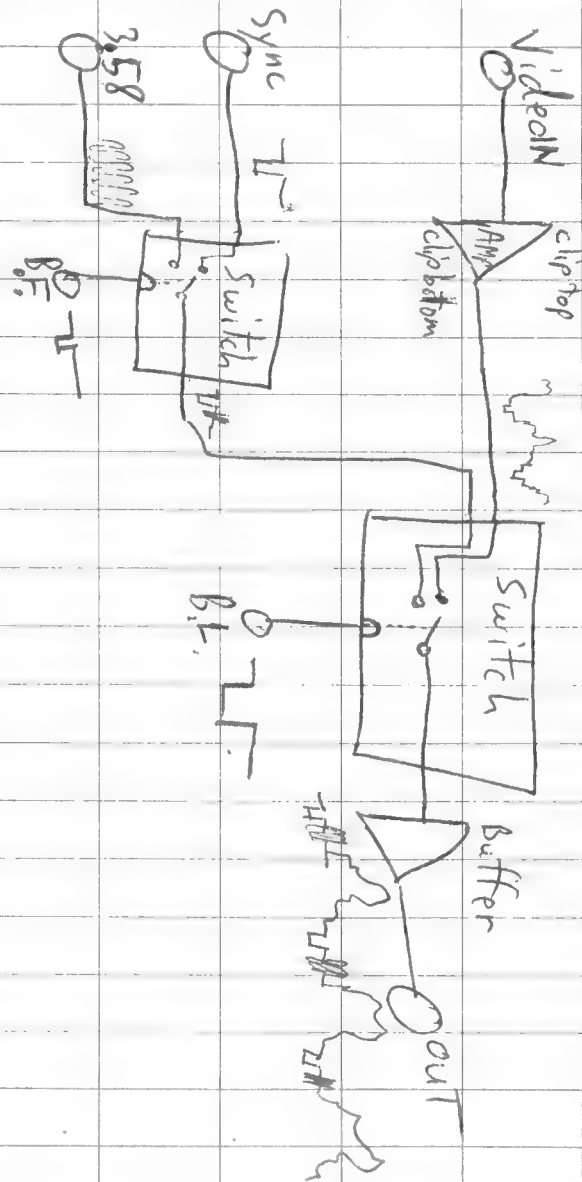


w. filter

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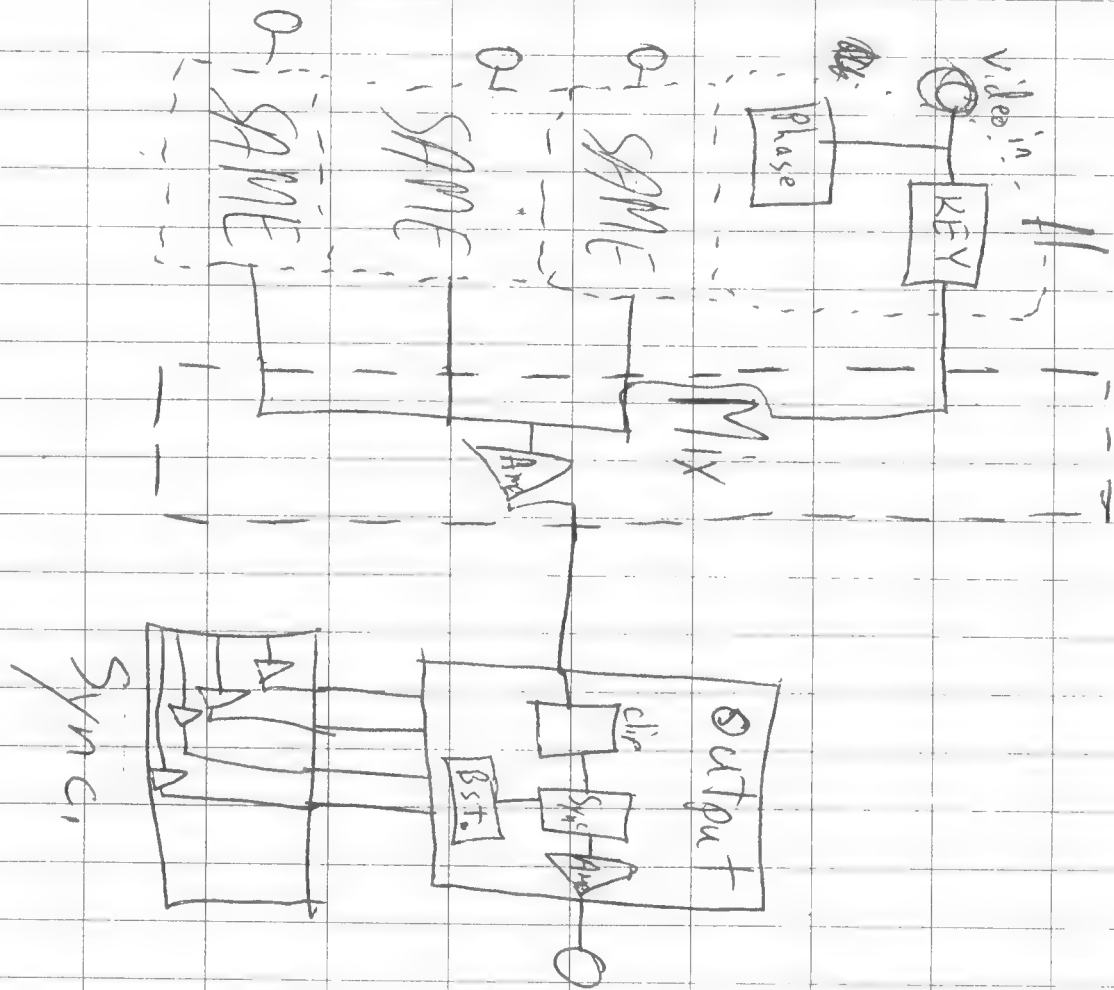


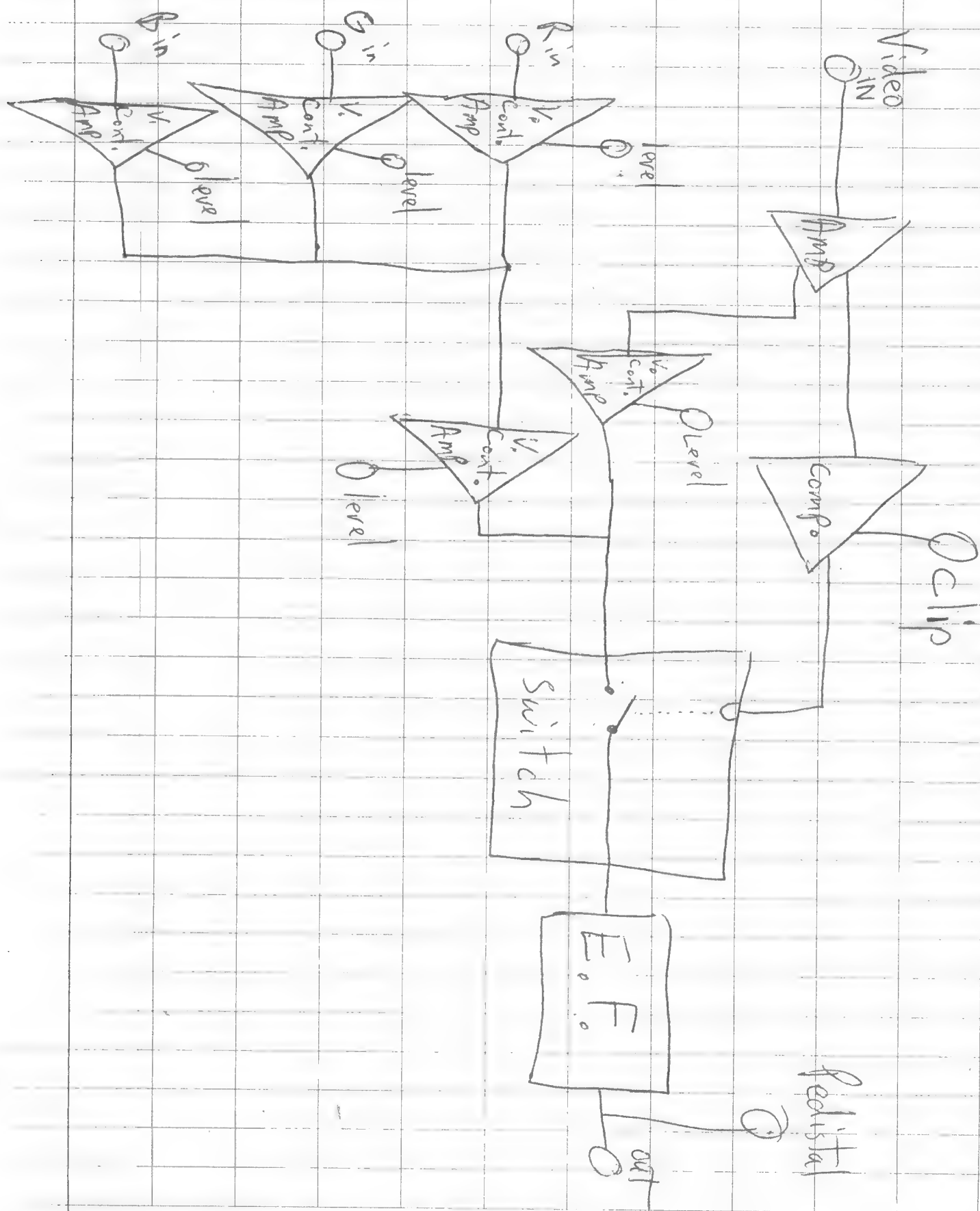
Colorizer #1 7/11/75
output Board Logic



Colorizer #1 Logic

1/11/75

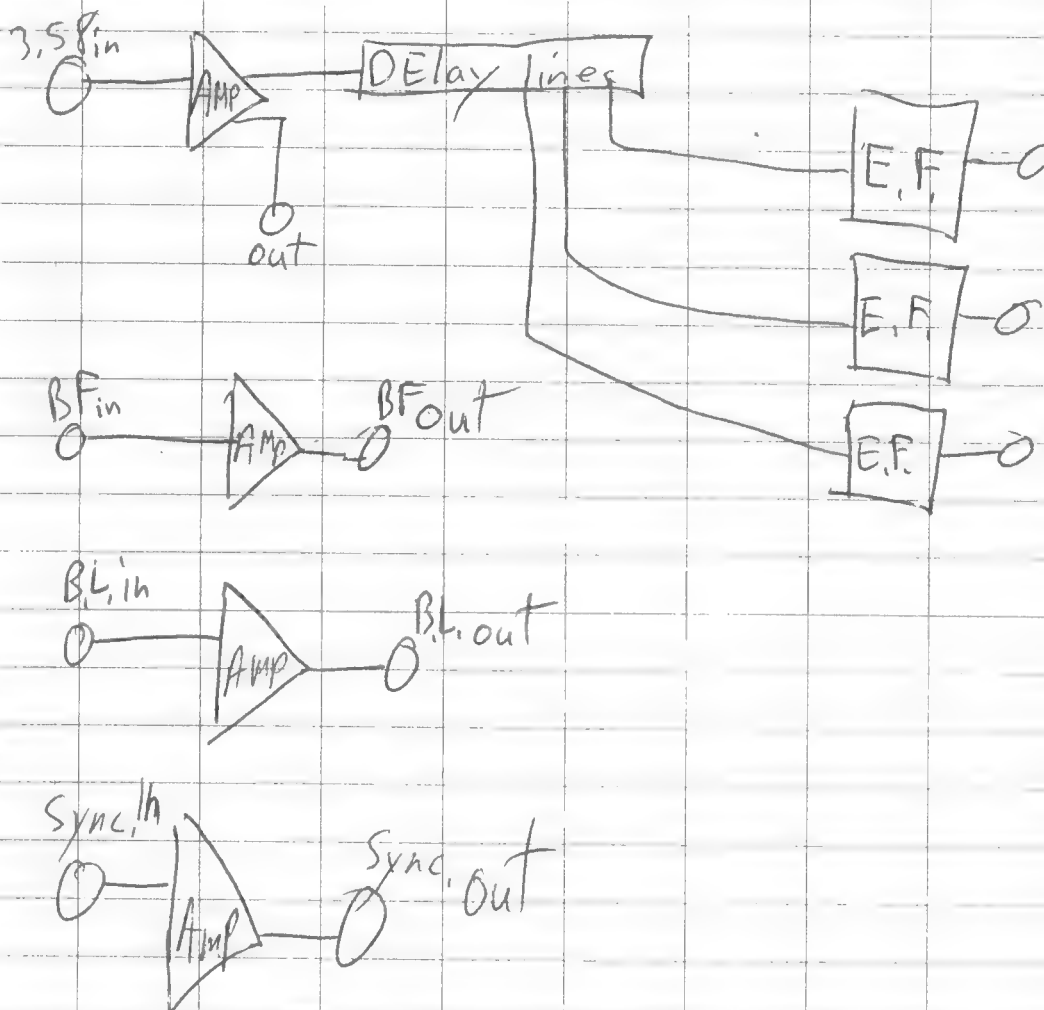


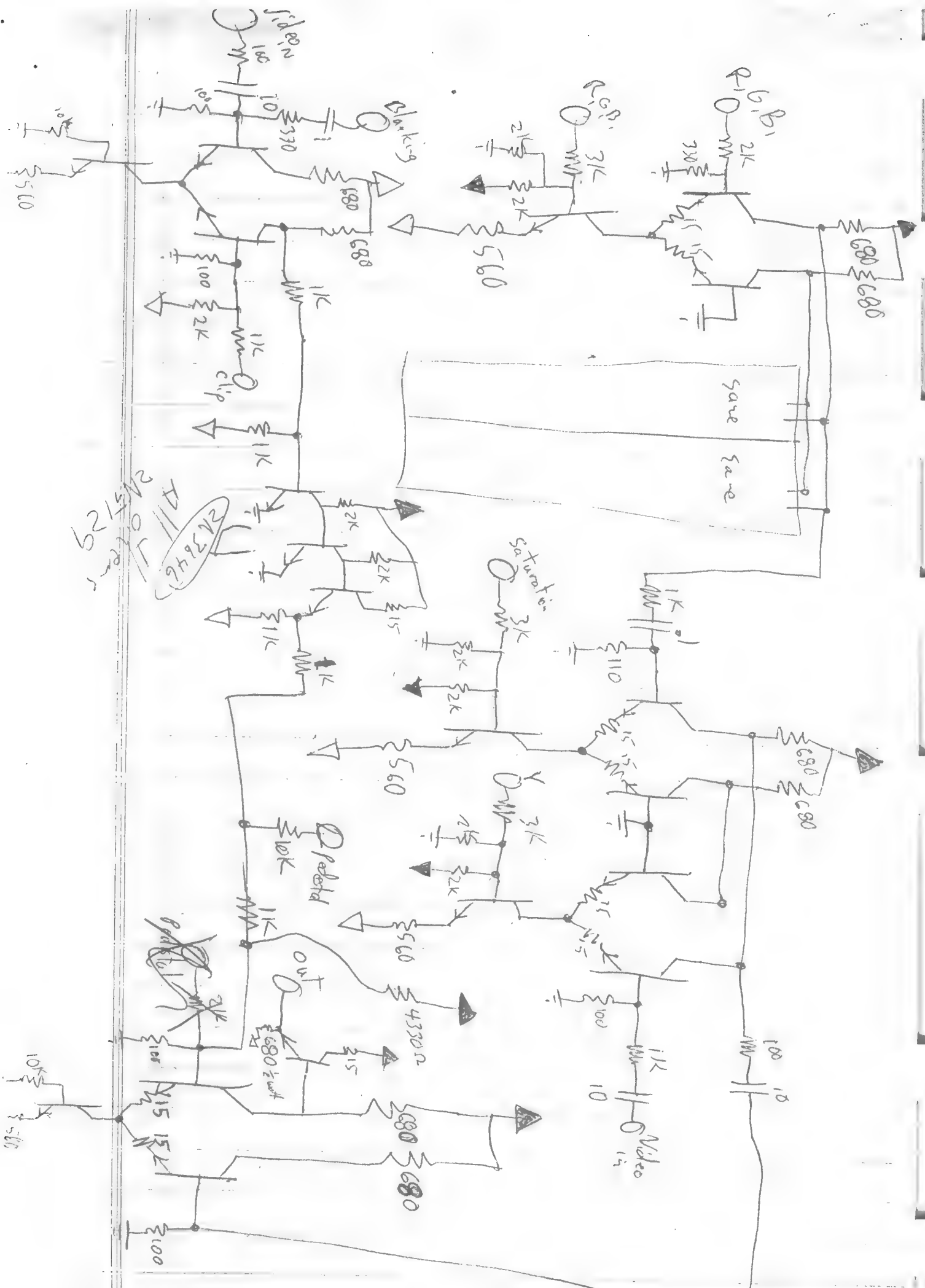


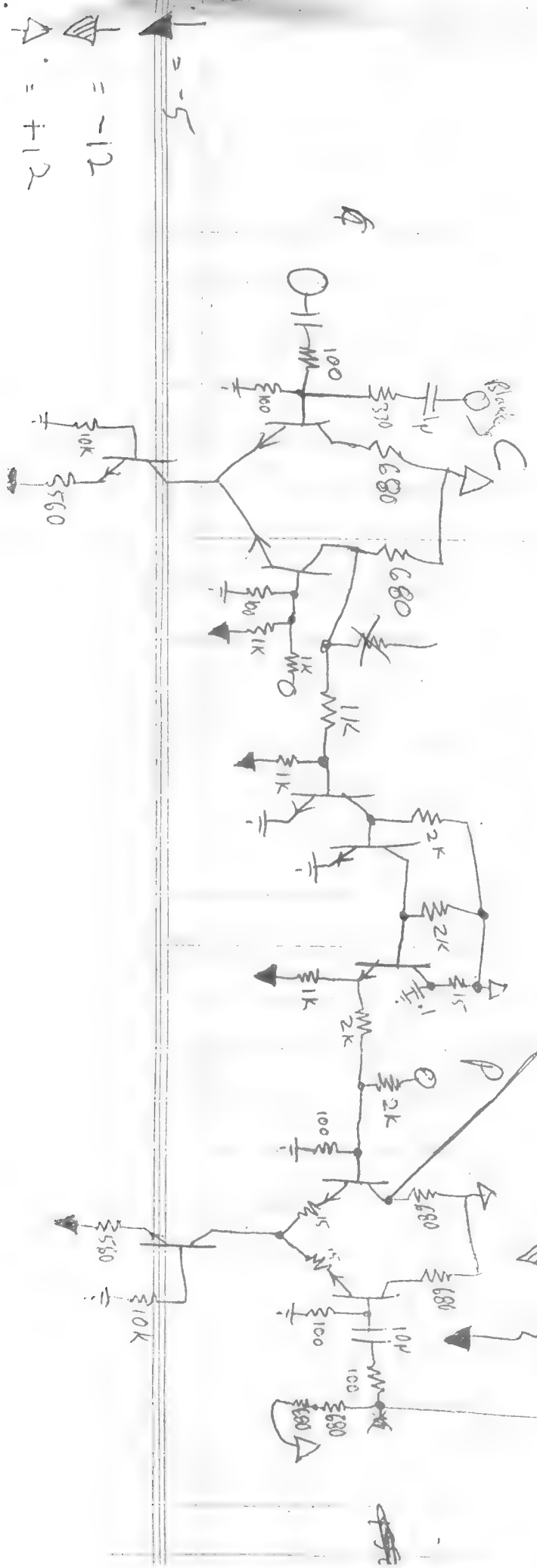
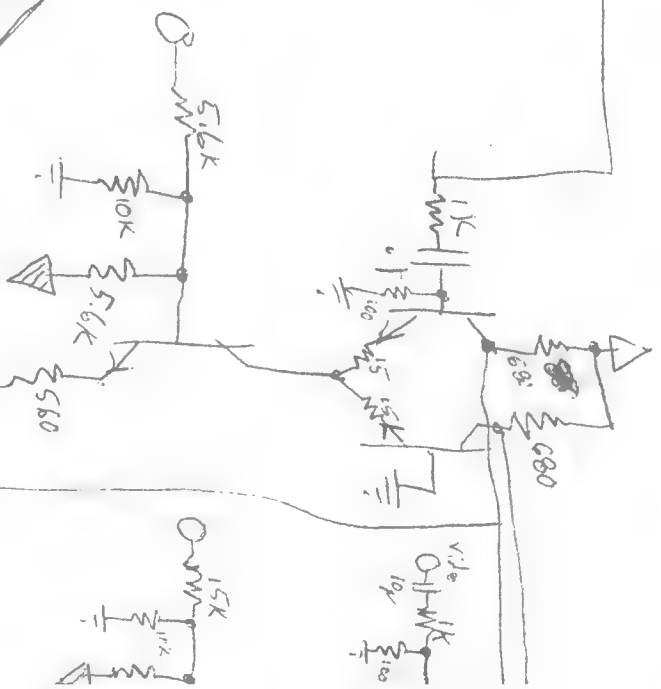
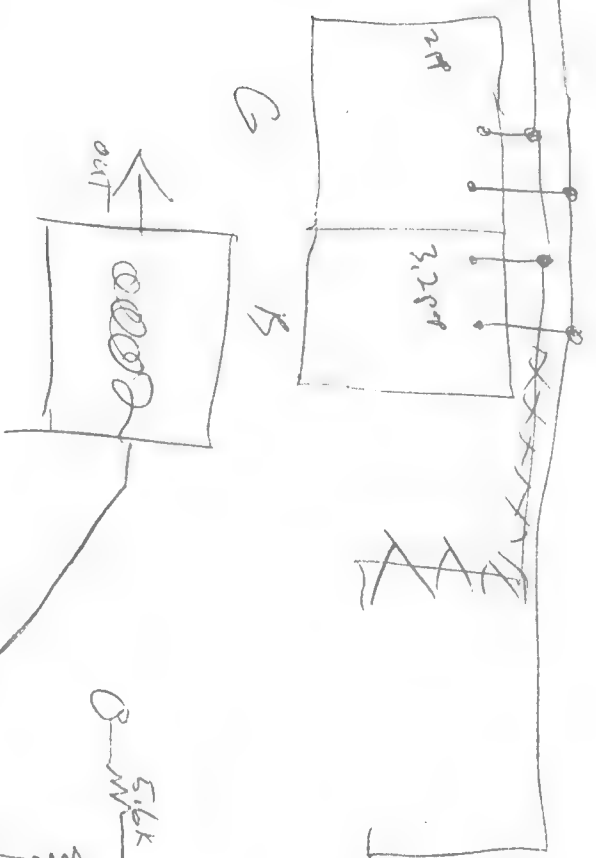
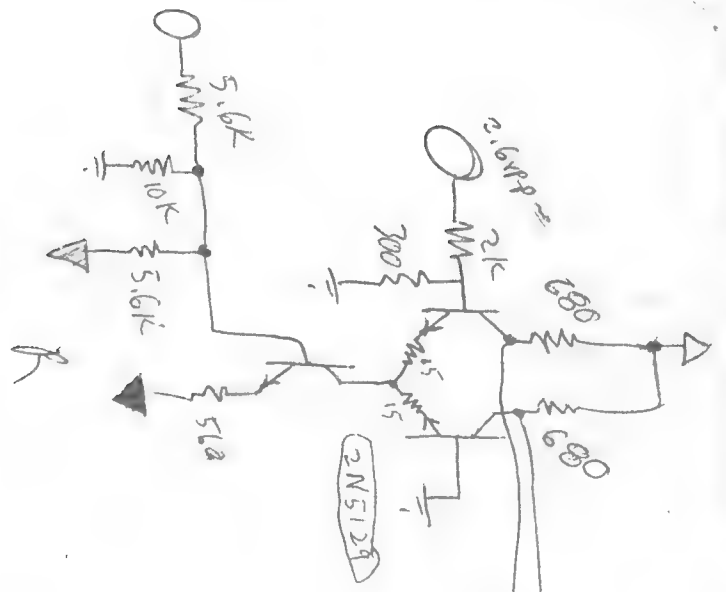
Colorizer #1

4/11/75

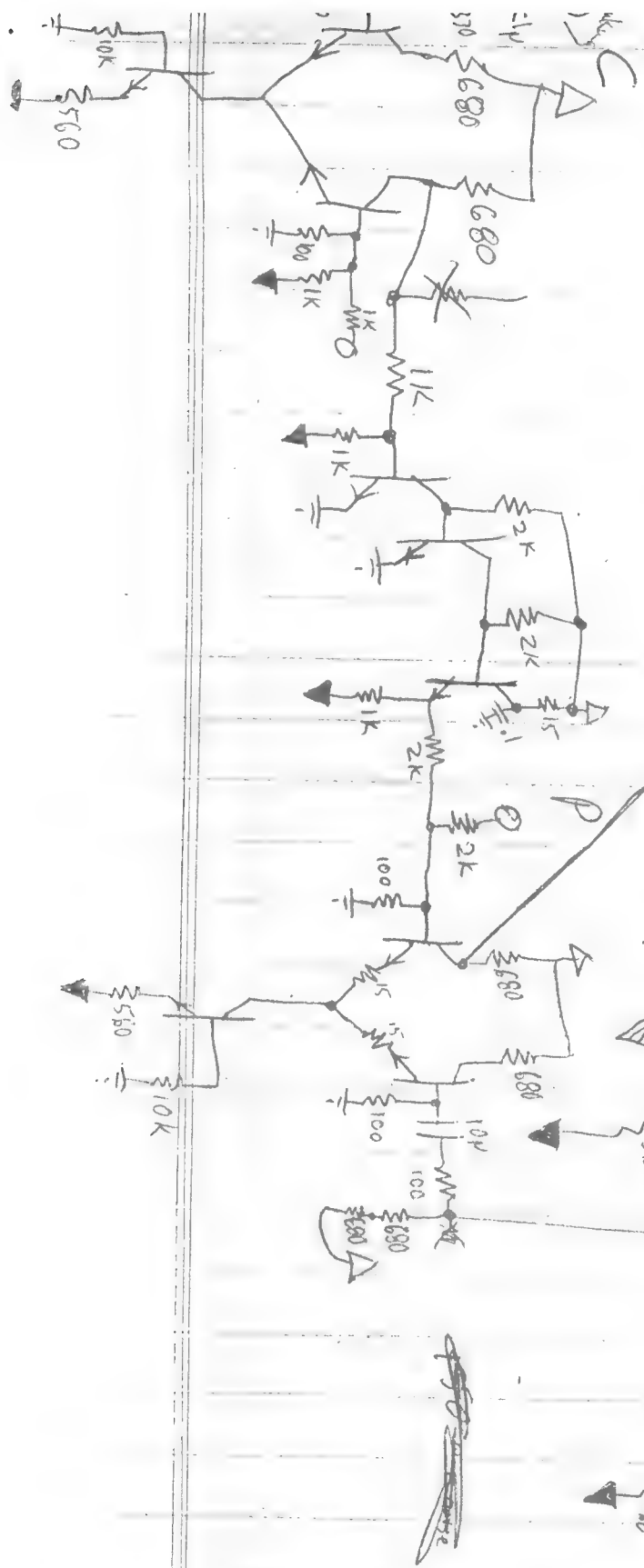
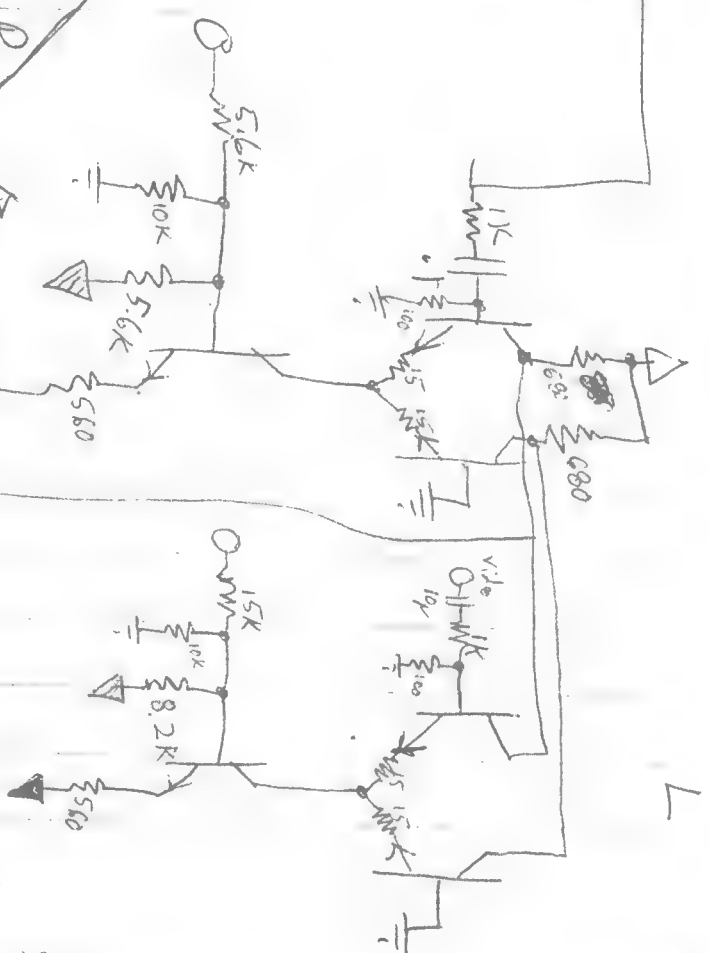
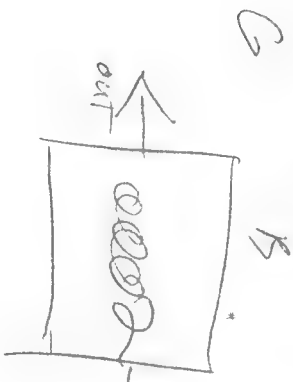
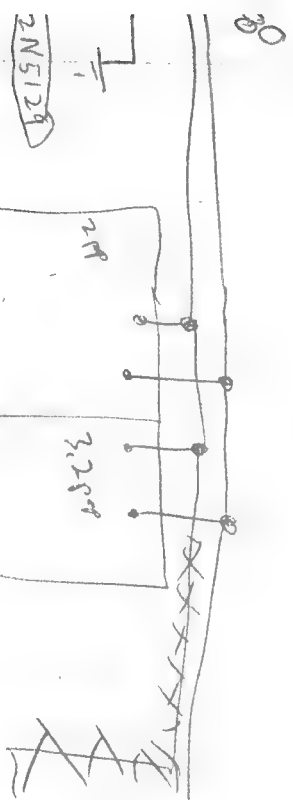
Sync. Board Logic







$\Delta = -5$
 $\Delta = -12$
 $\Delta = +12$

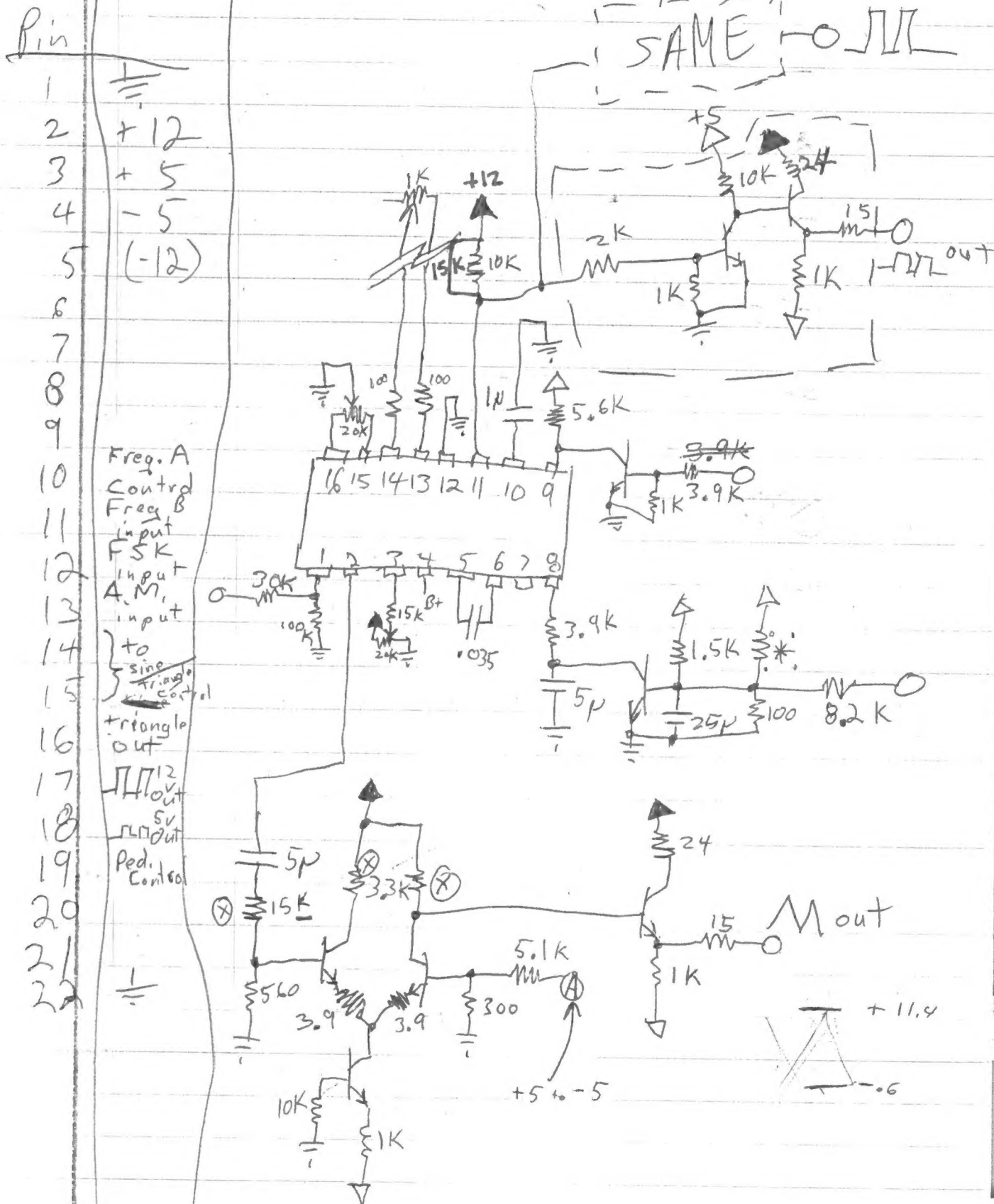


The image contains several hand-drawn circuit diagrams for a 4-bit counter using integrated circuits (ICs).

- IC1:** A logic gate (likely a NAND or NOR) with inputs from Pin 6 (via a 10K resistor and a 100 ohm capacitor) and a 100 ohm capacitor. Its output is connected to Pin 7 (via a 15 ohm resistor and a 2K resistor) and to the input of IC5.
- IC2:** A logic gate with inputs from Pin 2 (via a 0.1 capacitor) and a 25 pF capacitor. Its output is connected to Pin 19.
- IC3:** A logic gate with inputs from Pin 21 (via a 0.1 capacitor) and a 25 pF capacitor. Its output is connected to Pin 10.
- IC4:** A logic gate with inputs from Pin 13 (via a 3K resistor and a 2 pF capacitor) and a 2K resistor. Its output is connected to Pin 14.
- IC5:** A logic gate with inputs from Pin 7 (via a 2K resistor) and a 100 ohm capacitor. Its output is connected to Pin 9.
- IC6:** A logic gate with inputs from Pin 10 (via a 10K resistor and a 560 ohm capacitor) and a 15 ohm resistor. Its output is connected to Pin 11.
- Timing and Delay:** The circuit includes two delay lines connected to IC5 and IC6. There are also several capacitors (100 ohm, 100 pF, 25 pF, 2 pF, 500 pF, 560 ohm) and resistors (10K, 3K, 2K, 15 ohm, 10K, 15 ohm) used for timing and signal conditioning.
- Pin Connections:** The circuit uses pins 2, 6, 7, 9, 10, 11, 13, 14, 15, 17, 18, 19, and 21.

Oscillator 2 prototype II

7/10/75



↑ +5

↓ -5

↑ +12

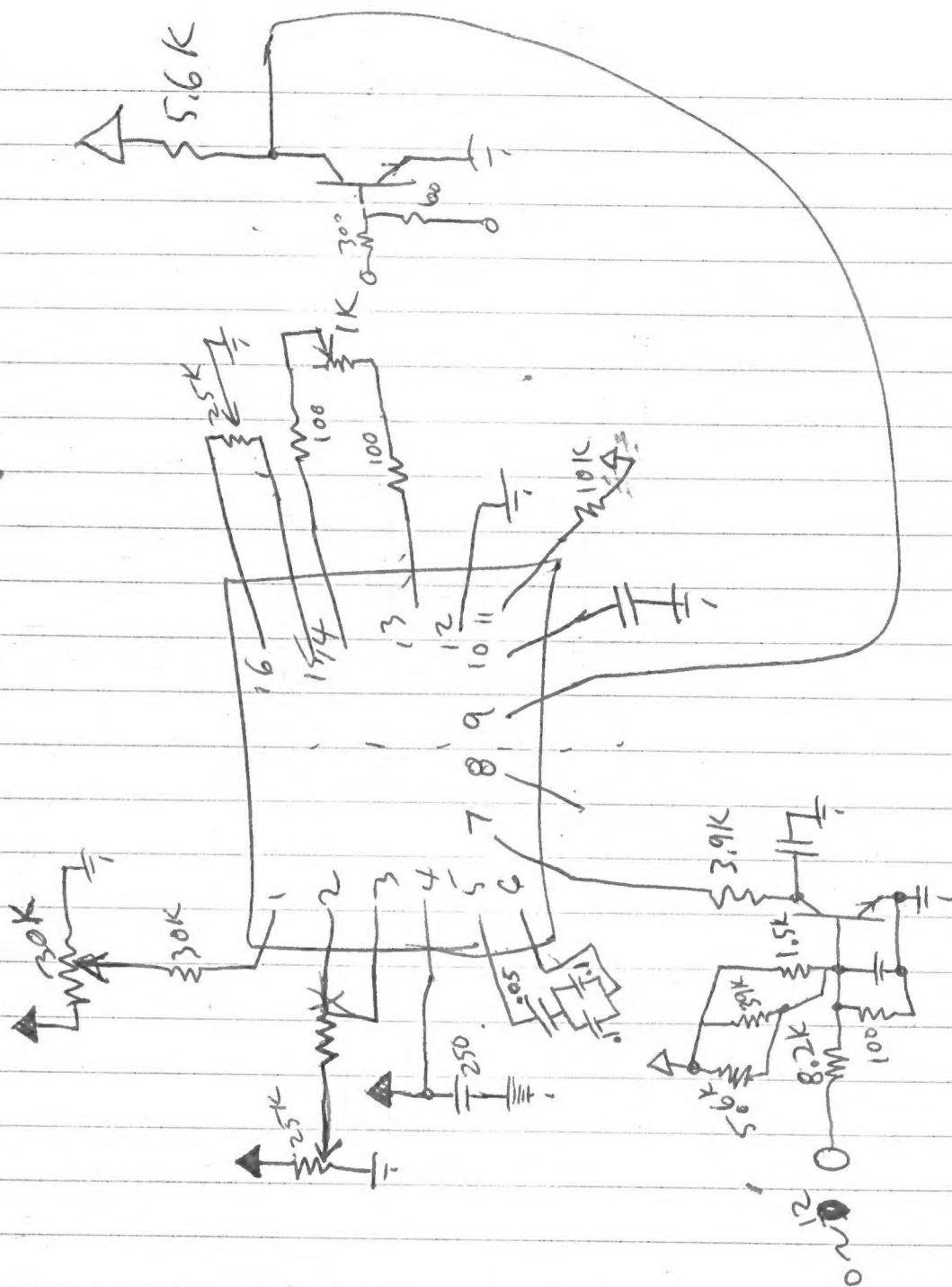
↓ -12

⏏ ground

* must be adj. for full range
~~line~~

⊗ might need adj.

Ⓐ -5 ~ +5 for ped. control



Oscillator 2 prototype II

